THE RaRa RAG

Newsletter of The Rochester Amateur Radio Association, Inc.

Founded in 1931

July 2019

Volume 71, Issue 11

Inside This Issue

Monthly Program	1
No General Meeting	2
Boardz Buzz	3
Calendar of Events	3
Hamfest 2019	4
Public Service	5
Education	6
Hamfest 2019	6
Crass Crafts Antenna Prod	7
FDIM and Hamvention	8
Eagle Flight	10
Hamfest Winners	11
RXCW Group	11
Field Day 2019	11
Hamfest Ads	15
VE Team	16
Elmers	16
RaRa Calendar	17
News Area From Clubs	18
Amateur's Code	20
Hamfest Sponsors	21
RaRa Marketplace	22
RaRa Officers	23
Area Club Contacts	24

The July RaRa General Meeting is the Annual Picnic Saturday July 13th

(No July General Meeting)

Scott Theis, W2LW, RaRa Vice President



Our July meeting will be the Annual RaRa Summer Picnic! This is always a great occasion and an opportunity to enjoy good food, good company and play with radios! RaRa provides the food and beverages and we will have our club radio set up. Mark the date in your diary and come enjoy the fun!

If possible we will also organize a Radio Fox Hunt as in previous years. That is lots of fun and you don't even need a ham license to take part. All you need is your 2M handheld so remember to bring that..

Feel free to bring any other radio gear that you would like to demonstrate, play with or use, the more the merrier.



The picnic will be at the **Cavalry Lodge** in Mendon Ponds Park (please note the location change) on Saturday July 13th (11AM to 2PM). For directions and the latest information please check the summer picnic page on our website. Set up will start around 10:00AM, the grill gets ready around noon and the burgers and hots will be ready soon after that. You are of course welcome to get there early to enjoy the day and each other's company. We invite you to bring a dessert to pass so we can have an assortment of treats to choose from. In the past we have had some impressive goodies. Please take this opportunity to show off your culinary skills!

There will be door prizes *Come and Have Fun!*

Annual RaRa Picnic

Saturday July 13, 2019

Cavalry Lodge in

Mendon Ponds Park

NO RaRa General Meeting

in July

The Picnic is the Meeting

Boardz Buzz

Mike Moore, KC2NM

Keeping RaRa Members Motivated

Our club relies on the activity of our members to carry out our mission of promoting Amateur Radio. Retaining active RaRa members is in fact just as difficult as attracting new members. The RaRa board places a big emphasis on communicating with members with the goal of increasing club activity.

Just as businesses try to motivate their employees to work harder and progress, clubs need to motivate their members in order to be able to maintain retention rates. In fact, motivation is no longer an option, it has become a necessity.

Set a good example

The idea is simple - attitude is contagious. It is a fact that we tend to feed off the sentiments and reactions of those around us. Within RaRa, our board members work hard to foster an ambitious, positive, and supportive atmosphere. We want the rest of the club members to feel encouraged to participate and bring forth their ideas to make a difference and in turn remain a committed member for a long time to come.

Board members have made a conscious effort this year to make the meetings a welcome place with an organized agenda, interesting presentations, Elmer time, refreshments and a comfortable meeting environment.

Focus on happiness

Happy members are also those motivated to do good for the club. There are many ways to keep members happy. The RaRa Academy program has been very well attended and most everyone who has attended has commented that those sessions are a good learning opportunity. We do not need an elaborate plan to achieve this happiness. Sometimes just being asked means a lot, so I am asking, “What ideas do you have that would increase club activity?” “What new programs would you like to see instituted?” “What are the topics that you would be interested in for meeting presentations?”

Make sure members share in the club's success

If you were asked about how involved and invested all of our members are in RaRa’s success, what would your answer be? How good is our meeting and event attendance rate? Is there potential to grow and improve?

A successful club is one where all members can adopt and share a ‘we’re in this together’ attitude, which is something that requires passion. The good thing about this is that all of your members have this passion otherwise they wouldn’t be part of the club today. Foster this passion by recognizing those that bring forth ideas, support and encourage those who go beyond their call of duty but don’t stop there. Celebrate these achievements with the entire club and get everyone involved.

Take on fun assignments

Part of keeping a level of interest alive includes doing more than routine meetings and regular activities. RaRa has a calendar of special events that are meaningful and enjoyable. Examples are our June Hamfest, the July picnic, International Lighthouse Lightship Weekend Operating event, and Public Service events. By adding variety to our regular routine, we can ensure that we keep club members excited and involved.

Keep fresh ideas going

Our yearly September meeting offers us a regular brainstorming session where club members get a say in various aspects of the club. Please plan to attend that meeting so that you can bring forth fresh ideas and suggestions for change. Everything and anything should be up for evaluation; just because it's always been done that way, doesn't mean it should continue to be the case. How do we keep our members motivated to give it their all for RaRa? Share your ideas with others on our Facebook page.

Calendar of Events

Wednesday July 3, 2019 - No RaRa General Meeting
See you at the picnic

Wednesday July 3, 2019 - RaRa Board of Directors Meeting
5:45 PM at Novaworks, 333 Metro Park, F-500
NOTE: This is not a typo!

Saturday July 13, 2019 - RaRa Picnic
11AM till 2PM - Cavalry Lodge, Mendon Ponds Park

Rochester Hamfest 2019 was a Great Success!

We had 653 attendees, about 100 over last year, and everything ran very well. We'll be getting started on next year's event soon.

The Rochester Hamfest has tons of people to thank for making this event a success! If you're not on the lists below, contact us (hfproducer@rochesterham.org) so that we can be sure you get your points and a public thank you.

General Volunteers
Barry Blake AE2M
Rich Hoffarth K2AXP
Don Vlack K2DV
Bob Karz K2OID
Steve Fell K2SRF
Dave Enright K3WHD
Karl Heinz Kremer K5KHK
Tim Barrett K9VB
Mark Pedersen KC2UES
Kelly & Mary Anne Nichols KD0FOP
Tom Wood KD2IOB
Nathan Ayres KD2PQP
Don Vallone KD2REU
Jeff Sonstein KD2RRB
Jamie Oliver KF2B
J.D. van Griethuysen N2BNE
Steve Blowers N2ITN
John Viggiano NV2K
Dean Faklis NW2K
Dan Waterstraat W2DEW
Rodger Burkhart W2RMB
Cedric Kron WA2FTV
Lee Morelli WB2JOR
Tim Brown WB2PAY
Susan Aiello







Country Store Leaders
Bill Hopkins AA2YV
Ed Gable K2MP
Brian O'Connor KA2CGB

Talk-In - Managed by ARES
David Crawford K2DPC
Ralph Dutcher KD2BDZ
Jim Stefano W2COP
David Timmons W2DST

Raffle Coordinator
Forest Shick WA2MZG

Volunteer Examiners
Larry Safford AB2OY
Don Kiser AC2EV
Nicholas Manuele AF2M
Duane Fregoe K2SI
William Gibson KB2CHD
Fred Shippey WA2BQA





Services
Beakfast and Lunch - Tech Logistics & Svcs
Overnight Security and Parking Support - COP Security
Portable Restrooms & Sinks - United Rentals
Venue - Hilton Exempt Club
Volunteer Shirts - T-Shirts Express

2019 Rochester Hamfest Committee
Tim Guyot KB1POP
George Lama KC2OXJ
Dave Mitchell KD2RAF
Mike Moore KC2NM







Public Service

Mike Moore, KC2NM, Public Service Coordinator

The American Diabetes Association Rochester Tour de Cure was held on Saturday June 8 at the Xerox Campus in Webster. I have received emails from participants, planning team members and the ADA congratulating us on the execution of the communications effort. This year there were 2047 cyclists, walkers and runners who are on pace to again raise more than $1.2M for the mission of the ADA right here in Rochester. In terms of participation and $$ raised, this is a healthy increase from last year! Take a look at the pictures and videos on Facebook at the link following so you get to see more of the event and the excitement that tour creates in our community.

https://www.facebook.com/tdcrochester/

Thank you to the following communications team members that participated in this year's Tour de Cure. AB2OY, K2AXP, K2DWA, K2ELV, K2GC, K5KHK, KA1CNF, KB2FSB, KB2NCI, KC2KYB, KC2NM, KC2SPY, KC2UES, KC2YGH, KD2BEC, KD2RUQ, KS2JEK, N2BNE, N2IZV, N2PEZ, N2WES W2COP, W2DST, W2ODD, WA2FTV, and WB2PAY. I want to especially thank the members of SIARC for participating, and Drumlins ARC for participating and providing the excellent WA2EMO repeaters used for this event.

Remaining events in the 2019 public service calendar are listed in the following table. Visit **https://rochesterham.org/public_service.htm** for more information and to volunteer.

Upcoming Events:

Bike MS: ROC the Ride	Genesee Valley Park - Rochester, NY	Saturday	August 24, 2019
Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	Saturday	Sept. 28, 2019
Jamboree On the Air	Camp Babcock Hovey	Saturday	Oct. 19, 2019
Pumpkin Patrol	Overpasses of the New York State Thruway	Wednesday & Thursday	Oct 30-31, 2019
Holiday Science & Technology Day	Rochester Museum & Science Center	Saturday	Christmas Week







Education

Tim Brown, WB2PAY, Education Coordinator

THE ELMERS CORNER

Our next Elmers Corner will be at the August Meeting. The topic will be programming with CHIRP software.

Baofeng, Jetstream and Yaesu cables will be available. Bring your rig and we will help you program it.

If your rig has a USB programming cable, please bring it to the session.

This session will be hosted by Dave Timmons, W2DST

RaRa ACADEMY WORKSHOPS

July Academy *— There will be no formal workshops in July or August. However, at the RaRa picnic on July 13th, crimping tools for Power Pole connectors will be available.*

Power Pole connectors may be purchased for $1 per set. Orders must be received by July 3rd.

Send orders to: **mailto:education@rochesterham.org**

Sept. Academy — STATION GROUNDING AND LIGHTNING PROTECTION

Date & Location TBD
Sign up for Academy Workshops by emailing
mailto:education@rochesterham.org

Latest Academy information is available at **https://www.rochesterham.org/rara_academy.htm**

2019 RaRa HAMFEST

A member's view - Tim Brown, WB2PAY

My preliminary impression of the RaRa Hamfest site map was excitement. There was plenty of room for Flea Market parking, general parking and RV parking. **HURRAY!**

As should be expected things don't always go as planned. Mother Nature blessed us with soaking rains the weeks before the hamfest which resulted in the large fields not being available for parking.

The hamfest parking team learned of the parking limitations Friday afternoon prior to the hamfest. Lots of brainstorming resulted in a proposed layout for RVs and large vendors along the perimeter of the gravel area with rows of flea market parking in the middle of the area. We had a plan. **GREAT!**

Flea market parking began Saturday morning at 7AM and was going well until one vendor requested a large space to set up his tent. **Oops**, we hadn't factored tents into our gravel area parking scheme. Following the military adage of "Adapt, Improvise and Overcome", Dave Timmons, W2DST, tested the grassy knoll just north of the gravel area and found it dry and sound enough for parking and tents.

I was very impressed at how smoothly the parking proceeded. Drivers were patient and understanding. **Thank you.**

As a member of the parking team, I did not have time for tailgating. As a ham for 57 years, my hamfest goal is not getting the best deal or selling my vintage gear, but to enjoy the company of my ham friends both old and new.

My thanks to the Hamfest Committee: Tim Guyot, KB1POP, Dave Mitchell, KD2RAF, George Lama, KC2OXJ and the many volunteers who made the 2019 RaRa HAMFEST a success.





Crass Crafts Antenna Production Studio Notes

Volume 0.01

Jeff Sonstein, D2RRB - Returned to Life

I am new to amateur radio. A long time ago I was a military radio person, but that was a long time ago. I have spent most of my adult life working with software, and the longer I live the more I find that lessons I have learned in the world of software development apply quite nicely to other spheres of life as well. Prototyping is one of those areas.



2M Antenna Before Bending Radials to 45 Degrees

When I passed my amateur license exam I got a starter rig and began figuring out how to get on the air. I decided that I'd start with a 2 meter antenna and work my way down the frequency bands. I looked online for some how-to materials and I built a simple quarter-wave vertical with radials from a "UHF" chassis connector and some wire I had laying around.

And then I started thinking about winter. I've lived in Rochester for 19 years now, so I knew this thing was not going to last out a Winter here. I knew I did not really know what I was doing yet, and at the same time from my software engineering experience I understood that:

"The value of a prototype is in the education it gives you, not in the code itself." - Alan Cooper



Prototype After a Couple of Storms

For me, the value of prototyping out an antenna system is in the education that process gives me about how to think about building an antenna system next time. Getting a working antenna up is indeed the goal, but I don't want to expect my first attempt to be my best or my last attempt. Building several iterations of this little vertical gave me confidence that I could make informed decisions and get a more-or-less final version up for this band. In this case, it ended up being relatively inexpensive for me to just get the commercially-built parts for a fairly weather-proof stainless steel 2m vertical and put it up.

What I learned about thinking about installing and working on antennas on this little city lot of ours was well worth the time and energy for multiple iterations. And many of the things I learned/relearned carried over to a 6 meter antenna I also built. That physically bigger 6 meter antenna is what I want to talk about here. That and a couple of the lessons I have (re)learned along the way.

Next Up: The 6 Meter Band

For my next try, I wanted to build a 6 meter band antenna. I wanted it to be a horizontal center-fed half-wave dipole. I needed for it to not block any windows nor take up any of our small back yard garden space to avoid family war. I figured I could still fit that size dipole onto our back roof without encroaching on our neighbors... yes, our lot is that narrow. I also wanted to try out using some 14AWG copper THHN wire I had, I wanted to use some 6 foot long bamboo garden stakes and PVC I saw at a local DIY store, and I wanted to be able to reach out the window and rotate it 180 degrees... what I have heard referred to as "an arm-strong rotator". Not all of these requirements stood the test of prototyping time.

A brief digression about KISS... I have a (bad?) habit of starting out with overly-broad ideas of what I want to accomplish and thus too much complexity in my initial ideas about requirements & design. I did it to myself this time too. I need to remember to chant to myself at the beginning of these antenna projects: KISS, KISS, KISS... which is short for "Keep It Simple, Stoopid". If I had a coat-of-arms, that is what would be on it: "Keep It Simple, Stoopid". In this case, requiring the ability to rotate the mast by hand while reaching out the window meant several bad things for the design and execution of this idea.

1. It meant I had to extend the PVC pipe section all the way down in one continuous line. This added weight and required much more mounting hardware
2. It was difficult to make it stay rotated into any specific position other than fully over to one 180 degree stop or the other
3. In order to avoid blocking the window it had to be placed such that I had to lean far out the window to be able to turn it
4. It was going to freeze into whatever position it was last set to when Winter arrived anyway, this I could see right after trying it out.

I have a theory about the software development process: during the initial stage of figuring out what I am doing, as I go along the code gets bigger and more complex... and when I begin actually understanding the problem I am addressing, then my code begins getting smaller and simpler and faster and easier to understand. I think maybe I am going to find the development of antenna systems follows a similar path of initially increasing complexity and final simplicity.

Will it last the Winter? And what about rotating?



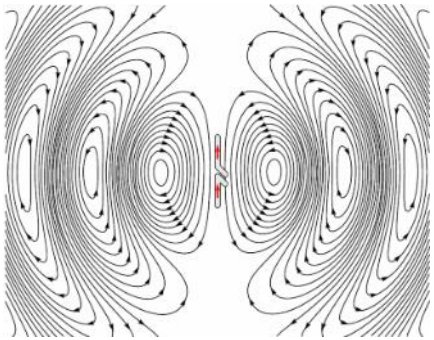
Bamboo and PVC are Great for This Size

I now have up a simple 6 meter center-fed half-wave dipole made of wire, cable-ties, bamboo, PVC, wood, a center-connector, and some snap-on RFI choke material. It is hinged at the base to allow lowering the antenna to a useful maintenance height, and I am going back for at least one more rebuild before the ugly weather returns: I will use stronger wood for the base and legs, I will use a stronger hinge, and I will extend the vertical part of the system up by a few more feet. And I am honestly unclear if the Winter weather will trash this effort rapidly or not... we shall see.

And as to making it rotate on demand... hanging out the window to rotate the mast in the Winter was not an attractive prospect, the idea of fighting to break the mast loose from ice in the Winter did not thrill me, and thinking about adding complexity to force it to stay in a position not 180 degrees one way or the other was not thrilling either. So I decided to try to use rather than fight with the topography; to go with a fixed direction until I can afford to buy a rotator.

On the North side of our property is a pretty steep hill leading up to St. John's Home, then Highland Park Reservoir, and finally Highland hospital. When I decided to drop the "it must rotate" requirement I had to make a decision about which way I would leave the antenna aimed. As a center-fed half-wave dipole, it should primarily radiate at right angles to the way the support is pointed.

Instead of pointing my 6 meter dipole to mostly radiate East/West and continuing to fight the reality that I have a big hill rising to my immediate North, I have aimed the antenna to mostly radiate North/South and I hope the hill provides some measure of reflectivity to push more of my signal sort-of-South.



Emitting Primarily Broadside (image courtesy Wikimedia)

"Don't push the river, it flows by itself." - Fritz Perls

Amazingly, it just works. I get decent SWR readings across the band and I get decent signal reports. I have used it on both sideband-voice and Morse, and it works just fine. And the cat seems to approve.

Some lessons (re)learned

- I have (re)learned to avoid fighting topographical limitations and instead to embrace and try to use them.
- I have (re)learned that I need to avoid complexity and embrace simplicity in antenna system design and execution.
- And I have had a lot of fun turning bamboo, wood, PVC, wire, zip-ties, and other such junk-closet parts into an antenna system that will let me get out a decent distance in any mode at up to the 100 watts max I have to work with.

If folks find these misadventures amusing I'll write about them some more as I try to figure out how to build for longer wavelengths on our tiny lot. 73s…



Close Supervision

FDIM and Hamvention 2019 Trip Report: Two Points of View

Susan Aiello (XYL) and Karl Heinz Kremer (K5KHK)

You all know what Hamvention is, but what the heck is FDIM? It stands for "Four Days In May", and it's the QRP ARCI (Amateur Radio Club International) convention that is held on the same weekend as Hamvention in Fairborn, OH, just a few miles away from Xenia. It starts on Thursday and goes until the end of Hamvention on Sunday. So four days. We did have a few one-year subscriptions to QRP Quarterly, their magazine, at our ham fest, so if you won one, check it out.

WEDNESDAY
10:25 am: finally on the road to Dayton for FDIM and Hamvention 2019!

While we don't usually travel 'lite', we are seriously loaded up for this trip with extras: radios, antennas and Build-a-thon stuff for K5KHK, and LOTS of yarn-related stuff to keep the ham-spouse (Susan XYL) busy!

My packing list included a soldering station, and anything one needs to assemble and debug a circuit board, plus an HF radio, antenna and interestingly enough, no microphone but a straight key. I am learning Morse code, so I thought that if I would get a chance to operate, it needed to be in CW.

A few hours into our long drive we learned the sad news of the unexpected death of a treasure in the QRP community- N2CX. Joe Everhart was a well known figure, and was on the FDIM conference schedule tomorrow. His ab-

sence will be felt at this event by many, including K5KHK who was looking forward to hand-delivering a QSL card for a CW POTA contact.

Joe was a QRPer through and through, and used mostly CW when activating parks. I've had him in my log a few times. He also designed my 17ft fishing pole tri-band vertical that I wrote about in a previous edition of the Rag. I was looking forward to his talk about taking the tri-bander concept and applying it to 80 and 60m.

We made a few short pit stops along the way and were surprised to drive by an Ikea in Columbus (this will be a nice lunch/shopping stop on our way home!). All told, an eight-hour drive for a ham event - yikes!

Arrived at a very nice hotel and conference center and were welcomed at check-in for FDIM. I planned some 'spouse' activities, all yarn related, for non-hammers, and the registration folks were helpfully promoting them.

Met some friendly hams in the lobby and began making some new connections as this is our first time here and we are the only RARA's.

THURSDAY
Met a few interesting hams over breakfast: Charles, a pediatrician from Kansas coordinating a project in Tanzania to build a children's hospital, and Gary, a long-time ham who is part of the FDIM planning committee.

Thursday was FDIM seminar day: A day with a number of presentations about QRP related topics, some technical, other not at all, so it's an attempt to offer something for everybody. The day started out with Jerry Wolczanski talking about his scratch build DC transceiver and the approach he took and his lesson's learned from the project. After some description and pictures of Quartzfest (definitely not on my bucket list, I've eaten all the sand I ever want to eat already) we moved on to Hans Summer's talk about "Challenges of SSB" in which he described trying to create an HF SSB rig kit for $150 (including a machined case), followed by a history lesson about Arthur Collins involvement with arctic expeditions.

At this point of the day, Joe Everhart's talk was scheduled. Ashhar Farhan volunteered to fill the slot on very short notice and talked about his "Antuino" antenna analyzer and SNA device, and a new approach to writing software for digitally controlled radios. The end of the day was filled by Dr. Jack Purdum and his talk about a CW tutor based on a cheap "Blue Pill" micro controller, that is programmed via the Arduino IDE. I preferred the more technical talks.

While Karl Heinz was sitting in the conference room I headed off on my yarn/fiber field trip with Janet from Dearborn MI. We hit it off and had a great one-hour trip to the best shop I have ever been to: Fiber Optic; Kimber Baldwin Designs in Milford. She's a chemist who dyes her own yarn and fiber- a big deal in the indie dying community. I special-ordered some OOAK (one of a kind) spinning fiber to (someday) spin and knit into a sweater. A beautiful summery day, Janet and I strolled to Copper Blue, a local scratch-made restaurant and enjoyed lunch on the patio before returning to the yarn shop for yet more inspiration and shopping.

Dinner was with Robin & Jerry from Virginia; they chauffeured us to a revitalized neighborhood in the city of Dayton (the Oregon district) to the Corner Kitchen. Great farm-to-table food, friendly and interesting company, with a little tour around another residential area (St. Ann's Historic district) that reminded me of the Cascade District in Rochester. Left on our own, it's unlikely that we would have strayed far beyond the suburban hotel area so this was a really nice treat!

Hard to believe the day was not over, but the FDIM vendor event began at 8:00pm in the ballroom: let the  shopping begin!

Farhan was selling Antuinos! .. and I got one. It was very hard to tell if he pulled the biggest crowd, or if Hans Summers did with his QRP-Labs table. I felt a bit sorry for the guy selling license study guides - not really a crowd that still needs those. For those in the know, I did touch Hans' QSX prototype. Have not washed my hand since.

FRIDAY
Early start to the day and off to Hamvention! Unexpectedly encountered a few folks from the Rochester contingent at the shuttle parking lot and then a few more waiting in line for the gates to open (Mike, John, Bob, Membership Tim, Forest); a nice surprise; out of 30,000 peeps we found the RARAs :)

I originally intended to avoid Hamvention because, well, you know… But at the last minute I decided to check out the big event knowing it would only be a short trip because Karl Heinz was due back at the hotel for a conference event. I figured I could handle a few hours and I was right. It was pretty cool to see the magnitude of this event; after all, it's the biggest Hamfest in the world!!!

Finally inside the gates, I headed for a pit-stop: the first time in my life the line for the men's room was out the door and no waiting for the women! LOL!

Our next stop was the POTA forum. It was fun to meet folks in the small but growing POTA community, especially since that is some hamming activity that Karl Heinz and I enjoy doing together. Well, technically he hams and I read or knit or something. (What's POTA you ask???)

Good thing I wrote about POTA in one of last year's Rag issues.

I really enjoyed the area with the international clubs from all over the world, especially stopping to talk with the German ham club hams; well, technically Karl Heinz did the talking while I sampled the Haribo Gummy Bears they had in a bowl at their table.

Back at the hotel Karl Heinz spent the afternoon at the build-a-thon and I happily did nothing:)

FDIM always tries to host a "Buildathon" with 50+ people soldering in the same room. I participated not because I needed to build yet another kit, but because I wanted to experience how the whole event was organized (just in case we ever do a club building project). Oh, and I won the buildathon. I was told that it was not really a competition, and there was no winner, but I finished first with a working board, and I still consider that a win, even if they did not hand out a blue ribbon for that.

My husband- ever the competitor

We grabbed a mediocre bite to eat at a nearby Mediterranean fast-casual spot, then it was time for Club Night and the home brew contest in the ballroom.

For me the evening was another opportunity to connect again with my new fibery friends, Janet and Robin, and visit on the sidelines while the hams were doing their thing. We're hoping Robin's husband Jerry wins the contest :)

We continued to meet such interesting folks! KH has met some 'big deal' hams that he has admired or connected with 'on the air', as well as lots of other friendly attendees, all in the QRP 'club' (low power...whatever that means lol).

SATURDAY
KH headed back to Hamvention on his own and I brought my spinning stuff down to the 'spouse's' room. One adventurous maker, Betty, decided to give it a try and picked it up with ease!

Karl Heinz came back with a few nice finds that made him happy, which made me happy.

Mini Circuits was basically giving away stuff: $1 for attenuators, combiners, splitters and probably a whole bunch more stuff that was gone by the time I got there. I walked away with a few pieces. The other thing I bought was a Wind River "TIA" pack with their namesake coil, a whip and a small tripod. I did not buy the spectrum analyzer I was lusting for… had to leave something for next year :) I did listen to Wayne Burdick demonstrate the K4. I did not try to touch their preproduction models, chances are that their security would have taken my hand off.

Took a quick trip to Indiana in the afternoon; the 15th state we have visited together. We were only there for 20 minutes, but we were there - geocaching anyone?!

The FDIM festivities ended with a banquet where we had dinner with new friends, Robin and Jerry, Janet and Tom, and Dr. Charles. It was a nice evening with an acceptable meal, but the main event was the hammy door prizes, of which KH won a ham thing :)

That "ham thing" is a high quality coax patch cord from DX-Engineering. I was hoping that Susan would win either the KX3 or KX2 for me (she usually is pretty good at winning stuff that she has no use for, but I really want :))

For the record, I went into this trip fully prepared to have a LOT of down time, alone with my spinning, knitting, catching up on reading, and supporting my beloved ham. But I was too busy to knit one stitch and had a really great time- I even told Karl Heinz I'd go back again; especially with the side trip to Ikea.

This was a great weekend, and if you are into QRP and want to hang out with fellow low power enthusiasts (and in secret, some of them freely admit to using more than the standard 5W limit if the conditions require it), then this is a great add-on to the trip to Hamvention.

Eagle Flight

Mark Pedersen, KC2UES

Eagle Flight Scout Camp is offering the radio merit badge. One requirement for the badge is to carry on a 10-minute conversation over the air and use Q codes. Eagle Flight could use your assistance if you hear Scouts calling CQ.

Eagle Flight is a Scout camp for older boys who want a jump start on earning the Eagle rank. It takes place at Babcock-Hovey Scout Camp on the east side of Seneca Lake near Ovid, New York, starting on Sunday, July 28, and ending on Saturday, August 3.

Eagle Flight overlaps the second week of the World Scout Jamboree, taking place in West Virginia. The Ham radio station at Jamboree will also be looking for contacts. It's a perfect time to bring Jamboree and Eagle Flight Scouts together on the radio. Jim Wilson, K5ND, President of the K2BSA Amateur Radio Association, has kindly provided the frequencies to be used at the Jamboree, and URL for live updates from West Virginia (**https://k2bsa.net/jamboree-live/**).

This year, instead of setting up the radios under a canopy, Tim Ekstrom has generously offered to loan his ARES radio trailer to Eagle Flight. This will alleviate the need to disassemble the station at the close of every evening and permit more night operations.

So, if you can hear us calling CQ from Eagle Flight, or if you hear Scouts calling from the World Jamboree station (NA1WJ), please respond so that the Scouts can fulfill the radio merit badge requirement.

Hamfest Winners

Forest Shick, WA2MZG, Raffle Prize Coordinator

In keeping with the thrill of the Dayton Hamfest and our own, fantastic, successful, **Rochester Hamfest 2019**, let me congratulate the winners of our door prizes and raffle prizes.

CONGRATULATIONS

Here is part of an email we received:

Your Hamfest was even better than last year.
We were all there from Syracuse.

When I emailed Tom Utesch, KG2U, that he had left the hamfest too soon and he had won the QRP SDR HF Station, his response was:

Woohoo

RARA Rocks!

Thanks for the cheer Tom!

Door Prize Winners

As you know, you had to be present to win a door prize. The following names and call signs are the lucky winners that picked up their door prizes:

VE2ZAZ, W2DHB, KD2BQP, KC2LNK, AB2OY, N2ITN, KC9HEK, KF2ML, Kevin, N2PD, Mark, N2MKA, K2XTD, K3YFD, Frey, W2JTR, AA2QW, WB2GHC, KD2OWU, KC2GTO, KC2DIY, K2HZ, K2HJ, W2YPP, Edmond, K2DH, KB2JON, K1PY, W2QAU, K2HRO, KD2HRI, Reif and N2JRQ.

Raffle Prize Winners

- West Mountain Radio CBAIV Battery Analyzer (refurbished) KB2JON
- Tigertronics Signalink USB KD2ISA
- Bird Model 43 Wattmeter and certificate for 1 element AC2PP
- QRP SDR HF Station KG2U

NOTE: If AC2PP sound familiar to you, he won the Yaesu FT-8900 and Bird 43 at last year's hamfest!!

RXCW Group

Forest Shick, WA2MZG

Haven't heard much from us? Well, we are still very active – slowing down for the summer but still active.

Our latest activity is a weekly CW practice net.

We gather on the XRX repeater, 145.29MHz, pl 110.9, analog FM, for our initial check-in. Then we QSY to 50.250MHz, USB, as a secondary check-in. Finally we change modes to CW for practice. Typical QSO's are practiced. Net control creates an ordered list of call signs. The 1st person on the list contacts the 2nd for a short QSO. Then the 2nd contacts the 3rd, etc. continuing through the list.

This method gives everyone a chance to send and copy CW from many different fists - on the air - with QRN and QRM ever present—even on 6M.

Net control and the organizer of this activity is Harry, KF2TV. The net is very low pressure. If you just want to listen that is fine. It is a learning / practice experience for everyone, not a contest. Code speed is adjusted for each persons comfort.

If you would like to participate, learn Morse Code or learn more about this RaRa / XARC special interest group, go to our web page **RXCWG** or drop in on the Tuesday night net. Every skill level is welcome.

Field Day 2019



RDXA





















XARC—ARES











MISC



























Batavia Hamfest

Saturday - July 20, 2019

Alexander Firemen Grounds

10708 Alexander Rd. Route 98

One mile south of Rt 20

Alexander, NY 14005

MAP

Outdoor Flea Market - FREE Tailgating

6:00am - til

Buy/Sell Ham radio gear

Overnight Camping Allowed

Arrive after 6PM on Friday (the night before hamfest)

Only $7.00 admission includes free tailgating and free indoor space

VE Exam 8:00 AM

To Pre register for test

contact John Maxwell maxwell@acsu.buffalo.edu

or Call 716--404-9256

Talk In: 147.285 PL 141.3 Batavia repeater

Breakfast and lunch available

Sponsored by: The Lancaster Amateur Radio Club - w2so.org

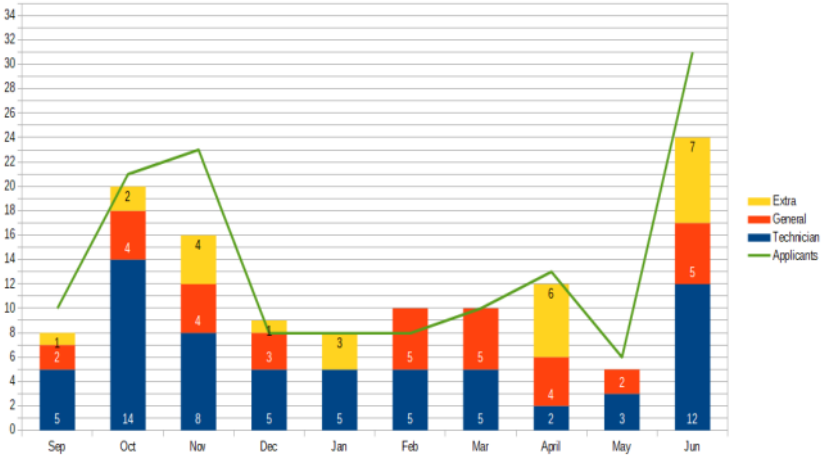
Questions: contact - Luke, N2GDU luke48@gmail.com



VE Team

The next **ALWAYS FREE** testing session:
September 15, 2019—more details to come.

Don Kiser - AC2EV
RaRa Board member
VE Team Leader
585-613-1035



2018 Sessions Result Graph

Chris Rimlinger	KD2SEQ	T	Edward Brongo	WB2WXM	E
William Hamalainen	KD2SER	T	**James Abounader**	KD2SES	G
Stephen Denny Jr	KD2SET	T	Nathan Fernaays	KD2PSC	G
Stephen Blowers	N2ITN	E	Paul Mann	KD2RWC	G
James Shevlin	WA2MYF	E	**Brian Talma**	KD2SEU	T
Riley Churchill	KD2RKG	E	**Bryan Parks**	KD2SEV	G
Sean Stalters	KD2SEP	T	James Polchlopek	WA2OFC	E
Anthony Trott Jr	KD2RTH	E	**Curtis Moran**	KD2SEW	T
Peter Holmstein	KD2SEY	T	David Hinerman	WD8CIV	E
Jeffery Aldrich	KD2SEZ	T	**Matthew Popovnak**	KC3NOR	T
Nandhini Rajagopal	KD2SFA	T	Grant Iraci	KC2QOL	G

New licensees names are in BOLD

CW Elmers

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Larry Lavery	WW2J	Fairport	ww2j@arrl.net
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com

Radio Elmers

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@arrl.net
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

RaRa Calendar

Tim Barrett, K9VB, Membership Secretary

July 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	**2** QRP Foxhunt Phone Fray	**3** ** NO RaRa Monthly Mtg ** RaRa BoD Meeting 5:45pm Nova-works 333 Metro Park Rochester 14623 ROC City Net 8:00pm 3.826 MHz CWOps Mini-CWT Test	**4** ARES Net 146.61 MHz 7pm NCCC Sprint	**5** FISTS Slow Speed Sprint	**6** AWA Museum Open 1pm - 5pm Venezuelan Independence Contest DL DX RTTY Contest Marconi HF Contest Original QRP Contest PODXS 070 40M Sprint
7 DL DX RTTY Contest Marconi HF Contest Original QRP Contest PODXS 070 40M Sprin	**8**	**9** Phone Fray	**10** ROC City Net 8:00pm 3.826 MHz SIARC 7.30pm CWOps Mini-CWT Test RSGB 80M Club Contest SSB	**11** ARES Net 146.61 MHz 7pm QRP Foxhunt NCCC Sprint	**12** FISTS Unlimited Sprint	**13** RaRa Annual Picnic, Mendon Ponds AWA Museum Open 1pm - 5pm IARU HF World Championship SKCC Sprint Marathon
14 IARU HF World Championship SKCC Sprint Marathon QRP ARCI Homebrew Sprint 4 States QRP Sprint	**15**	**16** Phone Fray	**17** ROC City Net 8:00pm 3.826 MHz CWOps Mini-CWT Test	**18** ARES Net 146.61 MHz 7pm QRP Foxhunt NCCC Sprint	**19**	**20** AWA Museum Open 1pm - 5pm Batavia Hamfest Russian Radio Championship CQ Worldwide VHF Contest NA QSO Party RTTY SA Sprint
21 Russian Radio Championship CQ Worldwide VHF Contest NA QSO Party RTTY RSGB Low Power Contest CQC Great Colorado Gold Rush	**22**	**23** Phone Fray	**24** ROC City Net 8:00pm 3.826 MHz CWOps Mini-CWT Test	**25** ARES Net 146.61 MHz 7pm RSGB 80M Championship Data	**26**	**27** AWA Museum Open 1pm - 5pm RSGB IOTA Contest
28 RSGB IOTA Contest ARS Flight of the Bumblebees	**29** QCX Challenge	**30** Phone Fray	**31** ROC City Net 8:00pm 3.826 MHz CWOps Mini-CWT Test			

News From Area Clubs

Monroe County ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.

The next ARES Meeting will be held on: **Thursday, June 27, 2019, at 6:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

Severe Weather Alerts:
Winter brings severe weather in the form of heavy snow and strong winds. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads)

Rochester DX Association, RDXA

RDXA meets the 3rd Tuesday of every month (September through June) except for December, which is the Annual Holiday Banquet. Meetings are open to everyone and all are encouraged to attend.

The next meeting is Tuesday September 17, 2019

Meetings are held at the Monroe County EOC
1190 Scottsville Rd. (second floor), Rochester, NY 14624 at 7:30PM.

Rochester Radio Repeater Association

The Rochester Radio Repeater Association, RRRA, will not be having meetings during months of July an August. On July 19, 2019 the RRRA VE team will be holding ARRL VE testing. The next scheduled RRRA membership meeting will be September 20, 2019. Meetings or VE testing are held on the 3rd Friday of the month in the Pittsford Town Hall Basement starting at 7:30 PM. ARRL VE testing fee is $15.

Enjoy the Summer.

The RRRA officers should be based on current nominations, Bob Shewell, N2HJD, President, Bob ODell, N2BZX, Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B-Treasurer / Membership Chairman. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site www.k2rra.org

Rochester VHF Group

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting www.rvhfg.org or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

XRX Amateur Radio Club

The XRX Amateur Radio Club meets the 2nd Thursday of each month. The meetings are 6PM at the Webster Recreation Center. Look for details on our website http://xarc.us

Drumlins Amateur Radio Club

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is http://drumlinsarc.us/

Amateur Radio Association of the Southern Tier, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads New York. Chemung County ARES (CCARES) meets the first Tuesday of the month except February at Harris Hill. See **www.ccares.info** for details. CCARES covers the entire area in Chemung, Schuyler and Steuben counties and all are welcome.

Communicators are needed to help out with the 2019 Wineglass Marathon October 6, 2019 (one week following the Hamfest) . If you would like to help out, contact the emergency coordinator: **emergencycoordinator@stny.rr.com**.

The Paypal feature for this years hamfest is back on line. I've been told that the tickets are at the printers and should be available very soon.

2019 Hamfest will be the last Saturday of September 2019. Stay tuned for more details

Our website is still under construction. It is anticipated that construction will continue well into the year. Until that is finished check us out at **www.arast.info**.

Don't forget to check out our repeaters when you visit the area. The N3AQ 147.36(+) and the 146.70(-) are the principal 2 meter repeaters. Also Echolink is available using the call sign KA2BED-R. Check it out. A full list of available repeaters that can be heard in the twin tiers area surrounding Chemung County can be found at **www.arst.info/arast_website/public/repeaters.php**.

Community Amateur Radio Club, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: **www.k2srv.org**

Digital Communications Association of Perinton, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public **DSTAR hotspots** (using the dvrptr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a **DV-Mega**-**Raspberry PI** combination. DCAP meets for breakfast at 7AM nearly every Saturday morning at **Rikki's Family Restaurant** in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715 MHz with a PL of 110.9 Hz.

Keuka Lake Amateur Radio Association, KLARA

The purpose of our association is to:

- promote interest in Amateur Radio communication and advancement of the radio art.
- conduct programs, training, and exercises that enhance the skills of the members, and educate the community.
- develop ties with other services and establish relationships with community organizations.
- provide emergency communication services.
- promote enjoyable Amateur Radio related events.

The association was incorporated in 1991 and has been a vibrant part of the community ever since. We have a very active VE testing program. We also participate in numerous public events (the Wineglass Marathon and the Wine Country Classic Boat Regatta are two of the largest).

We operate a system of three repeaters (which are linked), providing a large area footprint for two meter FM amateur use. Please see our website for details. (www,klara.us)

Our meetings are held on the second Wednesday of each month at the Civil Defense and Fire Training Center on Route 54 in Bath, NY.

Squaw Island Amateur Radio Club, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will Wednesday, July 10th . There will be license Exams this month. http://siarc.us/ 73's Steve Benton VP SIARC WB2VMR

Day	Date	Event	Location	Contact
Friday	July 12-14	Musselman Triathlon	Geneva	kb2nci@arrl.net
Sunday	September 8	Finger Lakes Triathlon	Canandaigua	kb2nci@arrl.net
Sunday	October 6	Wine Glass Marathon	Steuben County	kb2nci@arrl.net

Westside Amateur Radio Club

The mission of the Westside Amateur Radio Club is to provide emergency communications services to the community, to assist other civic organizations, to promote the technical craft of amateur radio through class training and testing, to mentor new members, and enhance fellowship among radio amateurs.

The Westside Amateur Radio Club meets on the first Tuesday of the month, 7PM, at the Prudential Kares Realty, 3313 Chili Ave., Rochester, NY 14624. Park / enter on the left side of the building and meet in the lobby.

The talk in repeater for all meetings is the WR2AHL Repeater 146.760MHz - 110.9. AllStar, Echolink, and web streaming connections are available.
Website: http://WestsideAmateurRadio.club

Interlock Rochester - K2HAX - Rochester's Hackerspace

Visit our website at http://www.interlockroc.org/,
contact us at info@interlockroc.org,
or find us in #interlock on Freenode IRC.

Rochester Makerspace

For more information visit https://www.makerspacerochester.org/hamradio

Genesee Valley Amateur Radio Association

Email n3dsp@lafireline.net for details.

Astronomy Section Rochester Academy of Science

For more information visit http://www.rochesterastronomy.org/

The Amateur's Code

Originally written by Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

Considerate	Never knowingly operating in such a way as to lessen the pleasure of others.
Loyal	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
Progressive	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
Friendly	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
Balanced	Radio is an avocation, never interfering with duties owed to family, job, school or community.
Patriotic	With station and skill always ready for service to country and community.

QRP Quarterly

QRP Amateur Radio Club International

www.qrparci.org

Chameleon Antenna

https://chameleonanten-na.godaddysites.com/

DX Engineering

www.dxengineering.com

West Mountain Radio

www.westmountainradio.com

Maxcon Antennas

www.maxconus.com

MFJ

www.mfjenterprises.com

HAM RADIO DELUXE

HAM RADIO DELUXE SOFTWARE The Radio Amateur's Best Asset

www.hamradiodeluxe.com

Tigertronics Grants Pass, Oregon

www.tigertronics.com

NUTS AND VOLTS

www.nutsvolts.com

HobbyPCB

www.hobbypcb.com

SERVO MAGAZINE

Www.servomagazine.com

Bird

www.birdrf.com

N3FJP Amateur Radio Software

www.n3fjp.com

ME Labs, Inc. 719-520-5323

Melabs.com

MOSLEY ELECTRONICS, INC.

www.mosley-electronics.com

universal radio inc.

www.universal-radio.com

RaRa Hamfest Sponsors Please Support our Hamfest Sponsors

Radio Society of Great Britain

Radio Society of Great Britain
Advancing amateur radio since 1913

https://rsgb.org

circuit cellar

Circuitcellar.com

audio xpress
ADVANCING THE EVOLUTION OF AUDIO TECHNOLOGY

Www.audioxpress.com

CQ Amateur Radio

www.cq-amateur-radio.com

Pacific Antenna

The RF Adapter Guy

NCG company

ELECRAFT

HILTON FIRE EMS FIRE DEPT.

HILTON EXEMPT CLUB

Tech Logistics & Svcs
Part of
Tech Fusion Group LLC

RaRa Marketplace

Michele A. Jamison, MD
Office Hours
by Appointment

Jamison Eye Care

www.JamisonEye.com
90 Erie Canal Drive | Rochester, NY 14626 | P: (585) 225-5883

Promote Your Business With RAG Advertising

Approx. size and cost—**per year**:

1/12 page: 3.4 x 1.85	$140
1/4 page: 5.1 x 3.8	$300

Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 4,500.

Contact us for details at editor@rochesterham.org.

RaRa Officers, Directors and Coordinators

Officers

President: Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com	**Treasurer**: Brian O'Connor, KA2CGB	(585) 721-2346	ka2cgb@arrl.net
Vice-President: Scott Theis, W2LW	(845) 774-9809	sa_theis@hotmail.com	**Secretary**: Mike Moore, KC2NM	(585) 721-0011	mikemoore@ieee.org

Directors

Tim Barrett, K9VB	(585) 582-2108	tim.k9vb@gmail.com	Don Kiser, AC2EV	(585) 613-1035	dkiser100@gmail.com
Tim Brown, WB2PAY	(585) 750-2087	tjbrown@rochester.rr.com	Karl Heinz Kremer, K5KHK	(585) 503-7214	k5khk@khk.net

Activity Coordinators

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	**Public Service**	Mike Moore, KC2NM	mikemoore@ieee.org
Club Station Trustee	Jim DiTucci, N2IXD	n2ixd@arrl.net	**Raffle Administrator**	Forest Shick, WA2MZG	wa2mzg@arrl.net
Education	Tim Brown, WB2PAY	tjbrown@rochester.rr.com	**RaRa Academy**	Tim Brown, WB2PAY Scott Theis, W2LW	tjbrown@rochester.rr.com webmaster@rochesterham.org
Hamfest Co-Producers	Tim Guyot, KB1POP Mike Moore, KC2NM Dave Mitchell, KD2RAF George Lama, KC2OXJ	timguyot@gmail.com mikemoore@ieee.org mitchellbds@gmail.com kc2oxj@gmail.com	**RaRa Rag Editor**	Forest Shick, WA2MZG	editor@rochesterham.org
VE Team	Don Kiser, AC2EV	dkiser100@gmail.com	**Refreshments**	**Volunteers Needed**	
Media Communications	Tim Guyot, KB1POP	timguyot@gmail.com	**Reward Points Administrator**	Tim Barrett, K9VB	tim.k9vb@gmail.com
Meeting Audio	Brad Allen, KB2CHY	ballen@frontiernet.net	**Venture Crew**	Stephen Fell, K2SRF Mark Pedersen, KC2UES	k2srf@rochester.rr.com mpeder21@gmail.com
Membership Secretary	Tim Barrett, K9VB	tim.k9vb@gmail.com	**Webmaster**	Scott Theis, W2LW	webmaster@rochesterham.org

Rochester Area Radio Club Contacts

Antique Wireless Association (AWA)
Lynn Bisha, W2BSN: lbisha@rochester.rr.com

Amateur Radio Association of the Southern Tier (ARAST)
Thomas English, N2YJY: n2yjy@arrl.net

Astronomy Section Rochester Academy of Science
Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)
Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)
Gary Skuse, KA1NJL: ka1njl@arrl.net

Drumlins Amateur Radio Club Ltd. (DARC)
Alan Cook, K2MPE: alancook948@gmail.com

Fisherman's Net Amateur Radio Club
Jim Sutton, N2OPS: jim@otrym.org

Genesee Valley Amateur Radio Assn.
Bill Boyd, N3DSP: N3DSP@lafireline.net

Keuka Lake Amateur Radio Association (KLARA)
Gary Stratton, KC2YTD: keukelakeara@gmail.com

Monroe County ARES
Jim DiTucci, N2IXD: n2ixd@arrl.net

Orleans County Amateur Radio Club (OCARC)
Terry Cook, K2EYS: k2eys@ocarc.us

Rochester Amateur Radio Association (RaRa)
Tim Guyot, KB1POP: timguyot@gmail.com

ROC City Net
Jim Merolillo, K2ZX: k2zx52@gmail.com

Rochester DX Association (RDXA)
Chris Shalvoy, K2CS: cshalvoy@att.net

Rochester Makerspace
David Duckles: rocmakers@gmail.com

Rochester Radio Repeater Association (RRRA)
Bob Shewell, N2HJD: bshewell@frontiernet.net

Rochester VHF Group (RVHFG)
John Stevens, WB2BYP: wb2byp@arrl.net

Squaw Island Amateur Radio Club (SIARC)
Steve Benton, WB2VMR: sbenton2@rochester.rr.com

Westside Amateur Radio Club
Justin Grigg, KC2EQU: communications@westsideamateurradio.club

XRX Amateur Radio Club
Brian Donovan, K2AS: k2as@outlook.com

August Rag Deadline
July 15, 2019



RaRa meets at 7PM on the first Wednesday of each month. Join us at:

Seneca Waterways Council, BSA Headquarters
2320 Brighton Henrietta Town Line Rd
Rochester, New York 14623

Get Directions

Rochester Area Repeater Listing

The RaRa Rag

Published by
Rochester Amateur Radio Association, Inc.
P.O. Box 93333, Rochester, NY, 14692-8333
Hotline – (585) 210- 8910
Website – http://www.rochesterham.org